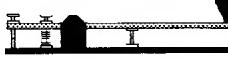




# KEY NOTE



Sec: E. (Geo) Longden. G3ZQS. 119 Cemetery Rd., DARWEN, Lancs. BB3 2LZ. England. 0254 703948

QSL Manager: GOFRL. Bob Lowe  
PO Box 190. BOLTON. BL1 4UL.  
Computer Chpt: G3UPA. Mike Foden  
19 Fairfield Rise, MERIDEN. CV7 7NP  
U.S. Rep: WZ8C. Ms. Nancy Kott.  
PObox 47 Hadley MI 48440-0047  
N. A. QSL Manager: N8FU - John Hugentobler  
, 4441 Andreas Ave, Cincinnati, OH 45211.

**SUBS**  
Cheques etc to FISTS C.W. CLUB.  
N. America to WZ8C, others to HQ.  
UK: £5, EEC: £6, Europe: £7  
N. America: \$15.00. others: £10.  
**CLUB BADGES:** \$3.50  
**STICKERS** 200/\$5 from W08E

**NETS**  
Sunday: 0930 & 1430 on 7029. G0IIK  
Sunday: US 2000Z on 14058. KC4UUG  
Saturday: US QRQ Net 1000 EST on 7040-045  
Saturday: US 2000Z on 14.058 NP2GP  
DX 7/14/21/28.058 on the hour for 15mins  
Pse keep watch all Novice allocations  
UK Net Controls use GX0IPXP  
25266 HAYES, RUSSELL MI 48066

## Listings

Up-dated listings may be obtained from N8IAG 3050  
Rochester Rd, Dryden MI. Pse send SASE.

## SUBS

Your renewal date is printed on your mailing label.

## GREETINGS

Sorry for the delay (again) but on this occasion it is not really my fault. Our Postman (G0FRL) has been over to the US with the paraplegic bowls team and in order to get everything co-ordinated (QSL cards and etc) it had to be delayed for his return.

Summer is with us again and a magnificent high pressure zone sitting over the UK and a much of Europe brought us temperatures of 27c early this month. I did manage to get on the bands on odd occasions and amongst those worked were G3JPZ for the first QS. He is looking forward to the visit of his old pal Mike, KA3YAK at the weekend.

Now I'm getting real worried about SK week. Thus far I have had only one report which included a log and nomination. From this lone log, I know that there were a number of you active so what about some logs and nominations??? My own efforts during the week were hampered by problems with the computer and indeed of the few stations worked, none were FISTS members. Hardly surprising since I was only able to devote about 45 min on 80m during Thursday evening.

The saga of my busted W3DZZ continues. I got a "professional" to go on the roof and piece the thing up and wondered why it was not bouncing the way it should. A local ham (G1ECC) turned up complete with ladders and we dropped the antenna so that I could work on the joint. My "pro" had made the most inglorious mess simply folding the loose wire back on itself and hoping for the best. We cleaned up the broken ends, bent 'em round a bolt, squeezed 'em together with a couple of washers and a screw and then ran solder over the junction. It is a different antenna now. Hi.

## THE STORY OF THE KEY

A book of this name which is published and distributed by Morsum Magnificat is in A5 format (as is MM) and costs £3.95 (UK), £4.25 (Eu Airmail) and rest of world (surface mail). It contains an authoritative six-part series on the history of the Morse key reprinted from early issues of Morsum Magnificat. The articles

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were written by the late Louise Moreau, W3WRE, a highly respected telegraph historian and collector of keys, who died in April 1994. The book is dedicated to her memory. It describes the development of the Morse key beginning with Vail's 'Correspondent' (used on Sam Morse's triumphant Baltimore to Washington demonstration of 1844 and the various improvements initiated by telegraphers themselves. This of course resulted in the wide variety of keys which were born in the following years. I have a complimentary copy and found it absolutely fascinating. This book is highly recommended and I apologise to G4FAI for being unable to squeeze this item into the newsletter earlier.

## PACKET

Further to last month's item, I am now up and running with a Kam Plus. My local BBS is GB7PWY, the full address of course being G3ZQS@GB7PWY. I know that sufficient of you also have packet facilities to justify adding an extra field to the database so if you would like the routing included for reference please send me a short packet message. This will enable me to print out a full listing of members and their BBS's on demand. News items of course can be sent this way which is convenient for those not subscribing to E-Mail and indeed this was the object of the exercise.

## THE SIAULIY KRASTAS AWARD

Contact stations from the following LY districts: Kelme, Akmene, Joniskis, Radviliskis, Pakruojis, Telšiai, Siauliai and Mazeikiai. EU need 6 and others need 3 QS's. Contacts since 1 Jan 1990. SWL K. All modes and bands. No SL required, send extract from log and 7DM, \$5.0 US or 10 irc to the award manager: Vilmantas Morkunas, LY3BY. P Box 88, LT-5400, SIAULIAI, Lithuania.

## MISSING KEYNOTE

I am sorry folks but due to circumstances at this end, I have had to run two news letters together. Ivy was very poorly with a suspect heart failure and I have also been very much down in the dumps myself. I hope this will not happen too often though and the bonus is that Ivy has recovered but is very much QRS compared to her condition before the problem.

## IS THERE A PURPOSE?

Carl KR4VQ writes with the heading "What is the purpose of being a FIST member". Carl feels that many members are losing the concept of what the club is really all about. Asking why they do not check into the nets, he often receives the reply that the nets are too slow. This can be resolved by starting a QRQ net on (say) 40m in the evenings. "I think I would enjoy that and maybe it would make other members happier but still, we are missing out on the whole idea of what being a FISTS member is all about".

"What do we mean by Morse Preservation? I believe that we mean that we are trying to keep CW from dying out in the amateur bands. That we mean to keep it alive for many generations to enjoy in the same way that we have enjoyed it. And just how do we accomplish this? I believe that we can do this by setting aside a little time each week and slowing down for our new ham friends who are just getting started. I believe that we can do this by spending a little of our time on the Novice segments of the bands and by trying to get the newcomers to our hobby interested in the mode that we love and enjoy so much.

I can remember when I was ready to go on the air on HF, even though I had my General class licence at the time, I headed straight for the 10 and 15m Novice segments. There I was greeted by many T's who encourage me and helped me out. I have been a ham now for about 5 years and have spent about 3 of those years on the HF bands and NLY working cw. I have become a CW fanatic. I love it and to tell you the truth, I wouldn't change it for anything in the world. I believe I enjoy CW as much as I do today because of those people whom I encountered at the beginning, people who were willing to slow down and take the time to give me the encouragement that I so much needed.

In our hobby, we have more than enough time to enjoy fast code anytime and anywhere on the bands. Please, for the sake of CW and those who are new to the hobby, take the time and get the hams interested in CW by getting on the Novice segments once in a while".

I have been preaching this for years Carl and thank you for adding your voice to the argument.

## BANKS AND YOUR SUBS

VK3WQ Marlene comments on the cost of subs via the bank. Knowwotcha mean petal - I get hassle whenever I take a trip to the bank with an o/s cheque which does not bear the Eurocheque logo. Two years subs by all means but easier I think to find a source of green stamps or UK banknotes. I got a personal cheque from a French member which was written out to Sterling. The bank manager worked out that it would yield just over £2.00 but if the member were to re-issue the cheque made out to the appropriate value in Francs, he would excise his prerogative to waive bank charges. I get this sort of problem most months. Local currency (Francs, DM etc) is not too bad because Bob (G0FRL) does a fair amount of travelling and is usually able to change it at reasonable rates but on the

whole, it would be easier if (particularly EU members) could either use Eurocheques or find someone who would write one out for him and simply transfer the amount into that bank account. There is a huge difference in the charges that different banks make and this was highlighted on a recent TV programme showing a deviation of as much as 300%.

## BRING N' BUY DBASE

Got a letter from A & L Florence the 'other day introducing the service above. If you are floggin' any gear or looking for a specific item, then this may help. If you are searching for equipment under "Wanted", it costs £1.00 for the first two items and £2.00 for an extra two. Items on the database are open for 3 months and if the database cannot score a hit then your payment is returned. Selling? It costs £2.00 for the first 6 items. Further info from:

The bring and buy database, 23 North End, Meldreth, R YST N, SG8 6NR. Phone/FAX 01763 262443

## FISTS DECLARATION

A declaration of purpose and policy for the NA FISTS is in existence. Formulated by Vince WB2EZG it outlines certain conditions which are at present effective in the US which are either implemented or influenced by the ARRL and FCC. Licensing conditions are relaxing over there despite protests from what would seem to be a majority of existing amateurs. This document makes it clear that NA FISTS deplores this easing of requirements, not only in the Code requirement but also in a perceived easing of theory requirements. Taken directly from this document:

Whereas, FISTS, the International Morse Preservation Society, noting with concern the general trend to ease Morse Code and theory exam requirements for Amateur Radio licensing during the past two decades; And Whereas, noting that easing of requirements indicates abandonment of the traditional mission of amateur radio as a technical hobby pursuant to the spirit and guidelines originally set forth in Part 97.1 of the Communications Act of 1934;

This is purely internal to the US of course but I have been urged to institute a similar declaration in the UK. Relaxing of requirements in this country of course is in no way as sweeping as this (they have for instance a multiple choice option for demonstrating Morse Code proficiency).

Members who serve as examiners are encouraged wherever possible to conduct such examinations in the traditional manner requiring one minute solid copy of plain text at the given speed. It also encourages all who are or might be in a position to affect the issue, now or in the future, to maintain Morse Code proficiency as an international standard for licensing in the Amateur Radio Service. It also urges the ARRL to re-institute the traditional Morse examination and requests that the FCC eliminate the multiple choice option in favour of the above standard.

I received a copy of this document direct from Nancy and also via one of our UK members who is clearly anxious that we make our views known in a similar

manner. I am sure you are aware that I have enough on my plate at the moment what with caring for Ivy and publishing Keynote together with other duties so, if anyone concerned about this issue would like to formulate an appropriate declaration then I shall do as the NA members have done and ballot the members accordingly. The US ballot incidentally resulted in a 95 percent acceptance.

Vince incidentally has circulated their declaration to just about anyone who is anyone over there including members of the government.

### PRACTICAL WIRELESS

I was delighted to see a mention on page 45 of the June issue of PW and they have gone to town in covering CW generally. Anyone with limited funds would be well advised to read the article by **G4BXD** where a simple home made single paddle (would you believe an old 6-inch rule) and some very basic logic, produced a very usable item. A couple of ubiquitous 555 timers together with a pair of 4027s and a 4071 form the 'meat' of the circuit and it should be possible to build this one for under a tenner. Indeed, **G4SLU** did just that and has included a few tips such as a vero-board layout. "Wot's veroboard?" I hear some of you ask. Whilst I confess that it has largely gone out of fashion (being replaced with home made PCBs) it was great for laying out simple circuits prior to bringing the local power company to its knees.

Editor; Rob Mannion (G3XFD), expands on the problems of learning (or teaching) the code and drifts between inked tape (ughh), punched tape and electronic tutors. Interestingly he poses the question; why is it that after I learned the code (sound-wise) was I able to read an aldis lamp? I was about to refer him to my tame psychoanalist but he answered the question himself. Once the neural connections (synapses) are made, the brain is able to accept the rhythm from any of the senses (I aint yet smelled it). I knew many deaf ops who read by simply touching the cone of a speaker and as a young mate with my pals in the company of girls, we used to discuss their relative merits in their presence by simply tapping code out on the table top. We even communicated visually by tapping an imaginary key on a sleeve or tunic. Fortunately we never encountered a young lady who could read our comments.

There are also illustrations of many commercially available keys which I confess made my mouth water.

### THE LAST WORD FROM NMN

Harry **GW0PNC** listened regularly to NMN, the US coastguard station in Chesapeake Bay and proffers their final message on 1 April:

NMN = 010001Z APR 95 fm cogard comscant Chesapeake VA/NMN to all = USCG now closing down continuous HF watch ceasing all Morse Code ops in the HF band and as we conclude our watch we wish the Maritime community fair winds and following seas = We are proud of our tradition and long standing service to the mariner on Morse Code beginning 1901 with the revenue cutter service experimenting with

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Morse as a means to communicate on land and sea to the first Morse Code radio installed aboard cutter Grant in 1903 = ur original commission was to receive distress reports but since 1902 the CG has faithfully and diligently listened for and responded to hundreds of thousands of calls from mariners in need of assistance position wx nav or safety info = ver the years we have provided the mariner with safety and nav warnings over HF CW and rcvd vessel location updates = We will feel a sense of loss with the passing of CW and a fast and precise key will be replaced with computer modes and auto alarms = The special occasion and excitement enjoyed by cw operators cannot be duplicated.

Harry's hand leaves gives me a small problem but I think I have it right. The message terminated with: But CW has run its course and we look forward to serving you on the next generation of comm systems via the GMDNS = Wishing you 73 and what God hath wrought + VA de NMN.

Thank-you Harry.

### THE STRAWBERRY BASKET

**G0CJJ**. Mike writes to say he is going away for an indeterminate period sailing in blue warm waters but he gives no dates - most cryptic. **G0LIU**. Includes a quote from an old Radcom with his subs: perating CW is still unsurpassed in personal enjoyment of an internationally recognised skill". **ZL2AOH**. Ralph has done a temporary QSY to JA and despite some mangling of his proposed address, he received the Keynote K. There is no reciprocity twixt JA and ZL so a licence is not possible but there is an agreement between JA and VK so he has written to Melbourne asking them to reinstate his **VK3ETV** call so that he can press for a reciprocal ticket. He has met a couple of local Hams one of whom has DXCC honours, having worked all countries; some achievement. He has now heard that he has achieved his CW DXCC and mentions the frustration of trying to find the final elusive countries. Well done Ralph. **G0HGA**. Despair not Angie. I think there are times - particularly when under stress - the we all feel like throwing in the towel not only in ham radio but other interests too. **GI3NQH**. John challenges my view that the Marine R/ was unshackled as regards procedure. During the war of course I would expect this John but the fact remains that a trailing IMI is more intuitive than a preceding INT which is what I stressed most. During the war, procedural constraints were imposed under the Admiralty's world-wide BAMS maritime communication organisation, contravention of which could have had a most desire consequence for the operator(s) concerned. **G0ELH**. Bob sometimes has problems deciphering the odd abbreviation appearing in Keynote. In general though, he saw what I wrote but knew what I meant. Hi. **GDJA**. Dave is QRL constructing a 28/144MHz transverter hence his silence on 2m. He does however have 50 and 70 MHz capability. Finds competition reduced on VHF CW and finds that often a DX station will QSY from SSB to CW for a breather.

FISTS CW CLUB NEWSLETTER

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Look for the gang on 058 on the HF bands, around 025 - 027 on 40 and generally HF of 3.550. **GW4IGQ** who joined us recently suffers from rheumatic arthritis. Hands and wrists are frequently affected so operating is dependent upon health factors. **G4MLW**. Congratulations are due I feel. Ian includes the legend Ph.D. to his title. After all that conning he is looking forward to some well deserved time on air. **G4BWJ**. Barrie joins the ranks of the professional scroungers. As one layabout to another mate Welcome! Why not dig up an adr for station you mentioned and sponsor him? **G3GXQ**. Wally makes note of the amount of bangs, crackles and hisses that plague just about every band in his area these days. If you can hear the insulators crackling on the power lines mate you sure do have a problem. **PA3BHK**. ur Robert is now president of the Benelux QRP club. He finds it hard to fit ham radio into a life with a tiring job and all kinds of social obligations together with other hobbies. Dunno Robert, I may not touch the rig for a full week but when I get real wound up it helps me relax.

#### ODDS ' N ENDS

**GW4GCB** reports that he had a big response for the keys he mentioned and as a consequence, they have all been sold though he is keeping his eyes open for more on his travels. His site is about 400' asl and only one mile from the sea so the versatower which is supporting his trapped dipole is proving a real bonus.

**G4OOS** has been helping out with **GB4HPS** at a local primary school. and was chuffed to find the number of youngsters who were fascinated with cw. Some of them took no time at all to send their name on the paddles. Headmaster "When are you coming again"? Must have gone down great with all concerned. **G0SDA** Colin mentions a nervous breakdown which took him out of circulation in 74. It was in 89 when he began to show some improvement and it was Amateur Radio and CW which put him back on his feet again. **G0STR** reports on a trip to Spice Island (Grenada) where he hauled a Ten Tec Scout, a straight key and a W3EDP. The sun was H T, the warm sea crystal clear and the rum is best described as "falling down water". It was after midnight gmt when the bands offered some joy and on 40m he reports EC, ZA1, HA, S51, KP4, CM6, 8P6, UA6, DK, GM, VE, SP, YL PJ8, W and N 3.

30M yielded W4, TI4, J6, DK, PY and G whilst 15m produced only LU and EA. Most reports were in the 559 to 579 area and **GM3ITN** thought he was joking about the 5 watts rising above the QRM on 40m. Sounds like a lot of fun Bill and I am green with envy. **G0SZE** includes a log of his activity during the SK week. He found poor activity in general and the FISTS members he worked were similarly dismayed. A contest on Friday evening resulted in the usual rash of yobbos who called TEST on top of QS's with no concern whatever.

**G3TUX** send me a piccy himself on one of his display stands and reminded me that the Bury ARS was holding a rally. Sri Chris, the aforementioned problems intervened and in any case, transport was non-existent.

## SATELLITES GALORE

I recently received a circular from **G7HIA** together with a small booklet describing the new P3D due for launch APR/95. The launching of satellites has to be paid for by the users. UK amateurs have already contributed substantially towards the construction of the Phase 3 D box of tricks (ú110.00) and Amsat UK along with other organisations are keen to boost the funds towards the ú600.000 cost of launch.

December next year should see the demise of scar 13. A variety of factors such as the time of launch and the orbital orientation, resulted in an unfavourable orbital configuration that has subsequently become better understood. scar 13 is in a decaying orbit and will soon start to experience atmospheric drag at perigee (heck I have had that condxn for years) and thus end its operational lifetime prematurely. Future projects are designed to take into account the features that caused this untimely declination. The first satellite of the Phase 3 series was to be launched on 23 March 1980. Due to the failure of the first stage of the Ariane-L02 rocket, the launch was not successful and the rocket fell into the pond together with the satellite P3-A.

Immense financial and human efforts came to fruition with the launch three years later of the successor, PE0B, on 16 June/83 which even today circles our earth as scar-10. As a consequence of a collision with the final stage of the Ariane rocket, A -10 did not reach its designated orbit and remained stuck at 28 Deg inclination but this did not affect normal operation via the satellite.

P3D differs from its predecessors due to its size. The satellite is approx 10 times as large and four times as heavy as A -13. With solar panels extended, it has a diameter of almost 6 metres. It will have a launch weight of near half a ton compared to the 140KG of A -13. At the beginning of its life expectancy, the extendible solar panels will provide peak electrical power of nearly 600 Watts enabling it to sport more powerful txs than its predecessors. The operating module (Rudak) will support in addition to CW and SSB, SSTV. Rudak will have a total of 12 demodulators and a max of 8 modulators distributed among the various receivers and transmitters in the satellite. Besides the very effective 1200 Baud BPSK, speeds such as 9600 Baud FSK and higher are being planned. The pay off here is that ground stations throughout the world will receive the satellite with very modest antennas - even hand held radios will receive it. There is much more to this communication but basically they are after out brass. At the present moment, we have very few members taking advantage of current satellite communications but improvements with P3D may encourage a lot more activity. With this in mind, on behalf of the club I have made a donation of ú20.00.

## NEWS FROM THE US

Diane N2QPI is now Extra class and her call becomes AA2WG and the patter of tiny teet has invaded the tranquility of Tim's KB8OHF shack. Charles Timothy will doubtless be several dB over 9 so perhaps Tim will be in the market for sound-proofing material.

The gang over there has organised a QRS net on 28.170. Given the current condx on 10m this may well prove to be problematic but any activity on 21.100+ or 28.100+ will always be welcome.

Prior to Dayton, Nancy was processing new members at a very impressive rate indeed. Her workload is set to grow dramatically with the Dayton exposure and more US FISTS roping in their friends.

Now that the band condx are improving, there is certain to be a lot more transatlantic chit chat. The snag with winter of course is that the HF bands fall out very early. Now, we are getting into the situation when the bands are open until midnight or beyond which means that both sides of these QSOs are out of bed (we in EU being more ready for our beds than in the US) but contacts are bound to be more prolific than during the daytime when the US gang have just crawled out of bed and are faced with the prospect of working for their corn.

### FINALE

Once again my apologies for the delay in this one. I will try to keep up in the coming months. May be off the air for a while because the rig seems to have flown a buse and I am getting nil output. The voltage is there on key-down but of current there is not a sniff. Hope it aint the driver bottle but if this is the case then so be it. Probably something simple but no time at present to investigate.

I have however been enjoying a degree of activity mainly to provide some sort of deviation from the normal run of the mill routines at 119. 80m has turned up quite a few members though there has been precious little activity from across the pond on the HF bands. Again, I think the operating times are the problem since my p.m. sessions coincide with a.m. over there.

In the meantime, I have had problems with Compuserve and have only recently been able to download a whole stack of E-mail waiting.

Not only am I seeking to add to the records to accommodate Packet addresses but also, if sufficient interest is there, an additional field for the spouse so that OM/YL listings can be made on demand.

I hope the sun continues to shine on all you good people. A brief wintry spell has been overtaken by warmer stuff.

Have fun people, conditions may well tempt you into the garden at the cost of on-air activity but your continued presence on the bands would be much appreciated.

73/88 es stay sober, Geo

## NORTH AMERICAN MEMO

by WZ8C - Ms. Nancy Kott  
P.O. Box 47  
Hadley, Michigan 48440-0047  
WZ8C @ KF&JS.#NEMI.MI.USA.NA  
Phone : 1-810-797-5388

Hello FISTS! The applications keep pouring in! Thanks to all who are sponsoring your friends and getting on the air calling FISTS! Thanks to you, we have almost 500 North American FISTS now. I can't believe it, but Geo kept telling me it was going to happen, hi. I am ALMOST caught up on all the stuff resulting from Dayton. If you haven't gotten a response from me regarding something I was supposed to take care of - hang in there. I can see the bottom of the pile and should be through it in a week or so. I have processed all the new FISTS who signed up in Dayton, so if you know someone who hasn't gotten their FISTS number yet please let me know. (Except for Jack's WB2FXK generous sponsorship of two DX stations).

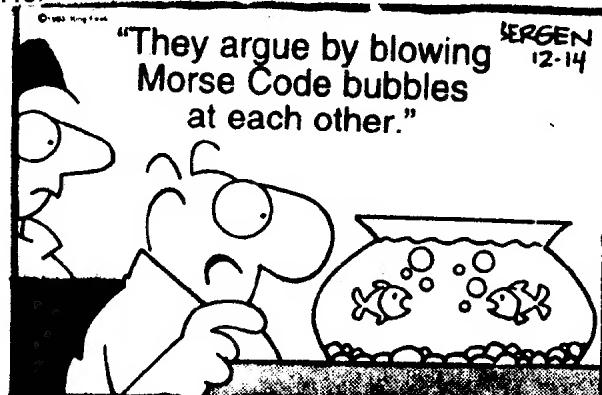
Field Day will be history by the time you read this, I hope some of you got together with other FISTS. And I hope you all had fun! Send in your stories and observations to share with us.

Geo has solved his CompuServe Email problem, and we are all up-to-date and in synch with the Keynote, WHEW!

We have some interesting ideas to share this month, so without further ado, here is your June Memo:

### WorldWide Frequencies

Charlie KA8OQF wonders if it would be worthwhile to undertake a project of making a compendium of "Novice" or equivalent frequencies of other countries, for those of us who like to work beginners. He wrote to QST with the suggestion, and Steve Ford, the Assisting Managing Editor answered. Steve indicated that even though the idea was interesting, the beginner readership of QST is mostly Tech's these days, and Novices are becoming an endangered species. He thought the idea would have too limited appeal to be of interest. Well, I think it would be of interest to most FISTS! I know there is a table of sorts in the FCC rule book that lists the frequencies other countries can occupy, but I don't remember if it is broken into classes. If anyone thinks this would be a good project and would like to help Charlie or offer suggestions, you can write to him at 26 Mello Ave, Dayton OH 45410-2119.



### **Help! What do I say?**

I've had FISTS ask me from time to time, *WHAT DO I SAY WHEN PEOPLE ASK ME ABOUT FISTS ON THE AIR???*

First of all, don't panic, hi! This does put you on the spot, because you don't want to go into a lengthy explanation of CW is in danger because of people who don't understand the simplicity and beauty and joy to be found using CW... it would be nice to have a basic response to have handy. That is reason for the little sticker enclosed with your Keynote this month.

I am hoping you will stick it near your key where it will be an easy reminder for you to help spread the word.

A lot of the hams at Dayton had never heard of FISTS until they saw our booth. Don't you think we should do something about getting more recognition? How does this sound?? When you get on the air for a QSO, first call CQ FISTS! Probably, no one will answer (albeit almost always somewhere, someone will have heard the CQ) because they are not sure what the call means, unless the listener is a FISTS member, in which case, this is a good way to get to know each other. If many FISTS do this, every day on every HF band hams will be hearing the name FISTS. Soon, their curiosity will get the better of them and they will answer your CQ FISTS to inquire what it's all about.

That's where the sticker comes in. It's a simple message that basically tells what we're about. You are welcome to elaborate on the info, of course!

You would probably be surprised how many hams are monitoring your QSO and will hear this message. Be among the first to start! Let's let everyone know we exist.

If people want more info, feel free to tell them to send a SASE to POBox 47 Hadley MI 48440-0047 for a sample newsletter, and if you think they would be a good candidate for FISTS membership, nominate them! I'll be happy to send applications and info sheets to you, so you have them handy.

Just think of the possibilities, with 400 NA FISTS, odds are that someone, somewhere will be on the air at any given time. Calling CQ FISTS will help you make Century Award points and help spread the FISTS word! Let me know how it works for you!

### **Mikes Magic Antenna**

*by Mike N9JIY*

Here is a super-simple antenna that's easier to hang than an end-fed wire, AND it works MUCH better. I found it in the MI-QRP newsletter in an article by Rocky (The Rock) W9SCH. It's a half-wave long like a dipole, and he says it's the true original Windom.

I gave The Rock a couple calls and he explains the theory of the antenna as this: a dipole has impedance of 70 ohms at the center, rising to about 3500 ohms at the ends. If we want to match a feeder to the dipole, we find impedance of the feeder, then connect it to the dipole where that impedance can be found. The impedance of a single wire feeder is about 20 ohms and is found about 15% off center on a dipole.

So, to make this antenna for 80 M, cut a 130 ft piece of wire, and attach a single wire feeder .15 x 130= 19.5 ft off center (45.5 ft from one end.), instead of the middle. Note that the dipole isn't split in two legs. It's a single unbroken length. You can make one for any band by following the feed-15%-off-center rule.

Suspend the antenna from insulators and bring the feeder into the back of a good tuner. I have a MFJ 945C and the antenna works connected to the center of the coax plug OR the wire feed tie-down.

You'd think such a lash-up would need a very good ground and no doubt it would help. However the only ground I have is a connection to the house-wiring conduit, and the antenna works fine! I've even disconnected that poor ground and the antenna will still load.

This antenna replaced my big (but low) full wave loop for 160M. It's average height is probably double the loop, maybe 24 ft. It hears a lot better than the loop, but it is quite a bit noisier. I'm getting good signal reports on it. The antenna and feed wire are both cut from aluminum electric fence wire... 1/4 mile for \$10.

Couple of comments, when I did my antenna for 80M, I had to cut it longer than 130 ft before it would work on higher bands. I have 150 ft of wire up, but it loads to 1:1 on all bands 80M to 15M. It won't handle 12 or 10 meters, but will load for the top half of 160M.

According to The Rock, I may have to fiddle with feeder length and exact location of it's connection to the antenna. I haven't done that yet. I didn't try shortening the antenna from 130 ft.

Finally, the off-center-around-200 ohm location should be a pretty good match to 300ohm TV twin lead, if you wanted to put up a more conventional split type dipole. A 4:1 balun would let you match this line to your tuner. My MFJ 945C has this balun built in to the balanced line connection. More off-center might be a better match.

Anyway the antenna is strong and light, and it puts the feeder closer to the house than a dipole. There is no construction to it, and it works! I'd be interested in hearing from others who have/will try it. Maybe Nancy will put your notes in the newsletter, too

My address is Mike N9JIY, 2437 Magna Vista Dr, Jackson WI 53037.

### **Sunday QSO Party Report**

Don KC4UUG sends in this report for the month of May: There was not much going on during May. Band conditions on 20 meters were very poor during the whole month - the propagation bulletins from W1AW reported occasional periods when there were no sun-spots visible, and WWV reported a record low (66) in the solar flux, along with three different periods when the A-index was at minor storm levels! And so the burning question arised: Is this, finally, the bottom?

During the month there was a new threat to peace and quiet on 14.058 due to QRM caused by the German digital station KL1HBU. This station was modulating its upper sideband with a series of tones (the usual way it's done) but it did NOT suppress its carrier which was usually right on 14.058. To make matters

worse, its powerful transmitter was overmodulated so it could be heard for a little bit more than 4kHz bandwidth even when other stations in Europe could not be heard at all. In May DL1HBU really got going with a daily schedule that started about 2030UTC and continued on for hours. It caused early endings to our parties May 7 and 14, and it caused us to try QSY without much success on May 21. Then a miracle happened. On May 22 it was heard for only about 15 minutes and it has not been heard since! Did someone stick a needle through HBU's coaxial feedline?

The Spring Sprint was a really great idea, and I also think that a Sprint every season should be tried. I missed the first half hour because my VE session ran overtime, and the last hour of the sprint came to an untimely end for me when DL1HBU got going on 20 meters. In spite of it all, I managed to work 17 FISTS plus 5 non-members.. I heard you (WZ8C) but you were busy at the time and I didn't want to interfere. So I QSY'd down a bit and called you - but you didn't hear me. Dam it! that's what I get for being polite!

*That's right Don, being polite when trying to get my attention doesn't work very well most of the time, hi.*  
Here are the check-ins for the month of May:  
Has the sunspot cycle hit bottom yet? It sure sounded like it! Condx very poor-QSB, weak sigs and QRM  
**May 7:** NP2GP, NA8G, N9VKY, N2PLE, N4VEF, KR4VQ, VY2RB, KE4HZM, NP2GQ.

**May 14:** NP2GP, KC7DQV, WB2FXK, KB0JTS, N2PLE, N1DNM, N7CFA, VY2RB, VP2VI.

**May 21:** NP2GP, N2PLE, AA1KF, N1MHC, KE4HZM, NP2GQ.

**May 28:** no party, CQ WW DX contest in progress.

#### A Visit From GOTGU

Diane AA2WG wrote to report on her first "Live" visit from a FISTS member! Bill Collier GOTGU from England telephoned her from Long Island where he was vacationing with his wife and two children. He said "I am here and would like to meet the FISTS with the Dipole hanging out her 23 story apartment."

He had written Diane several months ago saying he was bringing his family to New York City, so his call was not a complete surprise. They had a great visit. He and his family made it into Manhattan, no small task for these gentle Englishfolk, who had been warned about the horrors of New York City. They talked Radio, Family, Politics and the ever fun Royal Family. It was a great visit, and Diane is glad he had the foresight to call. She will be looking for him on the band, around 14.054 about 7 or 8 EST. Bill says that WZ8C is hard to get, but he has had a QSO with me, hi! He took their pictures, with the radio, of course, ate some American Pizza (in England, pineapple is a common topping!) and gave Diane his FISTS pin as a memento and left, hopefully feeling closer to FISTS in North America. She would do it again anytime!

It sounds like you did a FB job as Ambassador for NA FISTS, Diane. I'm glad it worked out for you and Bill - it makes the world seem smaller, and a friendlier place, doesn't it!

#### Encouraging Words from N2PLE

CQ CQ CQ ALL FISTS members de N2PLE.....

Band propagation conditions duly noted, I looked forward with anticipation to our first FISTS Morse Club Sprint 13 May 1995 from 1700Z to 2100Z.

Although I enjoyed myself, it was sad to note that there were all too few club participants. Taking into consideration the apprehension of slower CW members to commit themselves to entering what could possibly have been a frustrating experience, I would at this time like to remind you of the premise of the FISTS Club: The use and preservation of Morse Code.

If all operators in the club are to embody this premise, and I surely hope this is so, then this would be my suggestion to the members that aren't yet QRQ (*high speed*): Please enter ALL future club cw events. Here is a way to join in regardless of the speed of the sending operator - Send your answering callsign followed by **QRS** to the station that is CQ'ing the club special event. (for example N2PLE de WZ8C/QRS)

QRS does not mean "I'm a lesser quality operator". It means, especially in the club, I am not quite ready for your speed, but I wish to participate.

I am positive your call will be answered and your request honored. It is always a thrill for me to work an operator QRS, then meet him/her on the bands a while later and discover the same operator QRQ. Something is working right and our club is going forward.

If we are to have a viable organization, I for one want and need all members participating in our club events. So jump in there, get your feet wet & you will be pleasantly surprised at your immediate acceptance. Not only will you build your confidence, but also you will meet some great radio friends, and it's fun,fun,fun!

*Cliff makes a good point here, FISTS! 99 percent of the ops out there (and 100 percent of FISTS, of course, hi!) will slow down to your speed, and there is no shame in asking someone to QRS. We would like to see everyone having fun with our FISTS activities and it's an easy painless way to improve your operating skills! Cliff continues with some thoughts he'd like to share:*

I suppose some of the aforementioned thoughts were brought on by the demise of the Coast Guard CW stations. I can't seem to get it out of my mind. Not only will my years in submarines remain fond in my memory, but my activity as a Navy radioman hold much the same thoughts. Through the years I have always thought of CW as a solid friend who would never let you down. I was saddened by the closing of the CG CW stations. Having known the code now for 56 years I felt as if a close friend had gone Silent Key.

*Cliff is in a new QTH, a "half-way house for certified CW nuts", with 5 acres to grow antennas. He has permission to run Beverages on the farm next door for the winter 'test season. It's very rural w/no TVI or power line problems! He says the population is 602, which has my QTH beat, my town of Hadley boasts 372! Good luck w/ raising those arrays Cliff, & write something for us about the Beverages, I think everyone has wanted to try one of those at one point in time. I know I have! Thanks!*

## First Spring Sprint Results

Activities Coordinator Pete K8 UA tells us the results of the First Annual Spring Sprint:

"Well, I'm not going to say it was Sweepstakes or Field Day but judging from the comments received from those who participated, the first FISTS Spring Sprint was a fun event and one that we should continue to sponsor. The Sprint was held on the afternoon of Saturday May 13, from 1700-2100 UTC.

From the very beginning of the contest it was clear that some of the long-time members would play a big role in the final results. It was also clear that conditions were going to be less than ideal and that 20 and 40 were going to be the most active bands. And, that's the way it worked out. I checked the non-WARC bands 10 - 80 meters, and found that only 20 and 40 had any activity on them at all.

14.058 was the place to be. Maggie **NP2GP** and Don **KC4UUG** were there, and working stations throughout the contest, to the point of finishing numbers one and two in the overall score. In the final analysis, Maggie proved too much for the rest of the field, and her overall score of 2251 was far and away better than any other station. Congrats also to Don **KC4UUG** for the second place score and also to a brand new FISTS member, Garie **K8KFJ**, who finished a very good third. **VA3RON** is the only non-FISTS to send in a log.

Call	FISTS wkd	Non-FISTS	QSO pts	Mult	Total
NP2GP	19 x 5=95	12 x 2=24	119	19	2261
KC4UUG	17 x 5=85	5 x 2=10	95	18	1710
K8KFJ	14 x 5=70	4 x 2=8	78	15	1170
N2PLE	13 x 5=65	5 x 2=10	75	12	900
K8OUA	9 x 5=45	8 x 2=16	61	14	854
WZ8C	11 x 5=55	4 x 2=8	63	13	819
VA3RON	9 x 5=45	4 x 2=8	53	11	583
AA1KF	8 x 5=40	5 x 3=10	50	10	550
KE1AGT	10 x 5=50	2 x 2=4	54	10	540
WB2FXX	.6 x 5=30	5 x 2=10	40	8	320
WO8E	7 x 5=35	1 x 2=2	37	8	296
KC5GXL	4 x 5=20	1 x 2=2	22	4	88
K7WF	4 x 5=20	1 x 2=2	22	4	88

Pete's comments: This is the first contest I've ever organized or tabulated results for, I enjoyed it. But I know of many participants who didn't send in their logs. Rumor has it that a couple of them would have challenged Maggie in the results. It was obvious that the contest was set up for those east of the Mississippi. I felt for Stu, **K7WF**, way out in WA, and Dan **KG5GXL** in TX. Not only did they have to fight poor condx, but the tyranny of distance as well. All I can suggest is we need more Western FISTS to become involved so our 5,6, and 7's will have more chance to score on the lower frequency bands. Let's work on it for the next Sprint. I consider the first FISTS Sprint to have been a success, and we WILL be holding another in October--watch for it! It was particularly rewarding to read comments from non-contesters who said that this was the first contest that they had enjoyed. Read on!

**K8KFJ:** "I really enjoyed participating the Sprint today. I met a lot of new people... (with)... a common interest. Nancy was kind enough to call me... and tell

me my new FISTS number.. to use in the Sprint.:/

**KC5GXL:** "It was quite fun, did QS with many people, but I had fun... it seemed like nobody wanted to QRS... and I was kinda disappointed. But I still had fun and till definitely do it again.:

**N2PLE:** "All in all, considering poor propagation and a lot of FISTS ops afraid to get their feet wet, it wasn't a bad sprint for the first time out of the gate."

**AA1FK** : "Nancy called to give me my FISTS number the night before, never been in any ham contest before so I gave it a try, but had to take an hour break, too much, use a straight key."

**NP2GP:** "Good show! I'm not a contest, but that was fun. FISTS are S polite! I hope we can do it again in a few months."

**WO8E:** "I didn't do that great, but it was fun."

**VA3RON:** "Altho I am not a FISTS member, just thought I'd send this along. Would appreciate info re membership."

**KC4UUG:** "I don't do much contesting, but I have heard a few, and I think that without a doubt, the Sprint was the most polite contest I ever heard! And it was fun!"

**KE4AGT:** "...(All)... except **K8OUA** worked on 5W using 40-40 rig... into Ramsey Q Amp, tnx Pete!"

There you have it! If you didn't make it into this one, you'll have another shot in the fall. If you did take part, but failed to send in your log - shame on you! May your key rust and your contacts become clogged!! Thanks to all who participated, and I look forward to seeing you on the air soon. 73 Pete K8 UA Activities Coordinator.

### Psychological Pleasure

Dave **KC1DI** sends an article written by his friend Sam **WB5ZJN** which was printed in his local Traffic Call newsletter. I thought it was great and worth printing for you to read:

"I have heard it bemoaned many times that CW is dead. T which I say, "Bovine fecal matter!" CW will "live" as long as operators receive psychological pleasure from working with code. "Psychological pleasure? Please, Sam, don't try to dump that existential stuff on me." Yes, my friends, that is exactly what I'm going to do, so read on, McDuff! About the only positive thing we can say for code (and I think this is significant) is that it takes up very little bandwidth and that the "CW signal can get through when no others can."

Why do we really enjoy code? Although I cannot speak for everyone, I'd like to share some of my reasons with you. I enjoy CW for the same reasons that a person will go out and hunt with a bow and arrow rather than a rifle; for the same reason a person will get "in sync" with nature and said rather than ride in a motor-powered boat; for the same reason a person would rather carve with a knife than a power tool; for the same reason a person would rather ride a bicycle than in a car; for the same reason that a person would rather grow vegetables than buy them at the supermarket; for the same reason a person would rather sing a song rather than listen to a CD. It is interesting

that almost all of these activities require greater skill, are more difficult, more inconvenient, and less efficient than their counterparts. A gun is much more efficient for hunting; a motor-powered boat will always get you places faster; a powered carving tool is much faster and requires less effort; a car is much faster, and you don't get wet when it rains; and buying vegetables in the market is certainly more convenient; and I don't know about you, but I've never been able to sing as well as the voices I hear on recordings. There are, of course, pluses and minuses to all of the activities, and there may be times that we prefer one over the other, but this does not discount the value or superiority of either.

For me, good CW is like listening to a well disciplined orchestra "sing" its symphonies. Good code "sings" to me. It has rhythm, melody, form, style, and texture (some of the basic elements of music) and these elements bind and draw me to it. Yes there is an aesthetic pleasure which I get from listening to CW and I believe there is an existential reason why we enjoy CW. Code does have its merits, just as riding a bicycle is good for the heart, or homegrown vegetables are better for you. We enjoy CW because our association with it brings us pleasure, and our ability to communicate in a dialect which is unique and exclusive, which some "outsiders" find mysterious, is part of code's attraction.

Is CW dying out? Absolutely not! It will live as long as people love the bow and arrow; as long as people love sailing; as long as people love singing; as long as people love crafting with their hands; as long as people remain human."

Thanks for sharing this with us Dave and Sam!

### **FISTS MUGS**

Mike N3HLM uses his FISTS coffee mug at work, and gets asked frequently "What's FISTS CW" means. At first he tells them it is a martial arts order and CW means Chung-Woo. Then he explains what it REALLY means. He says they seem to like the Bruce Lee FISTS of Fury explanation better, hi! Cute, Mike! And the photo is nice too, hi.

### **Virginia Slow Net**

Pat N0RDQ would like to mention that the VA Slow Net (VSN) is looking for students and instructors. The net is a CW Net operating to teach traffic handling and to help operators increase their code speed. The net operates every night at 8:30 local time on 3680. They run at 8 WPM on the net frequency.

The course consists of 4 parts, Basic, Advanced, Liaison and NCS. The messages you take comprise a HOT TO booklet on Nets. After this course you will feel comfortable acting in any capacity you desire.

If you would like more info, you can reach Pat in several ways. By phone at home (804) 779-3351, at work (804)560-3828, on his BBS at (804) 779-0055

up to 28.8 baud) or he monitors the 430 and 88 repeaters while traveling. His internet address is N0RDQ@pplace.com. Let him know if you would like an info package.

### **Listings of Nets**

It seems like there are MANY slow speed, traffic nets mentioned each month, I can't keep them straight. I thought since I have trouble keeping track of them, and I write the newsletter, perhaps you are having trouble also! Soooo what I would like to do is compile a list of them that I can print each month, or put on a calendar, space permitting. If you've sent me the info on your net before, pse do it again, to both confirm that the net is still in operation, and make sure I have the information.

### **Slow Traffic Net Report**

Well, it seems like many moons have come and gone since I last wrote this column. I'm not sure where the time goes, but it doesn't hang around waiting for me! I am going to concentrate on the FISTS Slow Net in these columns from now on, since that's the main traffic outlet for FISTS as an organization. For those of you who have been wondering, but not listening in, the FISTS Slow Net is active and going along quite well, thank you! We're not challenging the section nets yet, and we are pretty slow, but we're on 3682 kHz every Tuesday and Thursday nights at 2100 Eastern time (OK, say Wednesday and Friday mornings at 0100 UTC if it makes you feel better!!). We have been averaging about 3 or 4 check ins each session, and we have been passing traffic — not only to those who check in, but some regular check ins pass traffic to addresses all around the country. I have listed below the amount of traffic passed and numbers of QNIs (check ins) for the three months from mid-March to mid-June. It is particularly gratifying to see that some regulars are passing traffic with regularity and doing it in pretty fine form (no one's perfect, you know, and we do make mistakes, but when that happens, the NCS — especially if it's me! — tries to show the correct way of doing it, and we're doing pretty well at sending the traffic we do send).

One problem we have to deal with is conditions. They seem to make it tough for all of us. I'm certain that there are many FISTS who have tried to QNI, but who just haven't been heard. To those, I say, I'm sorry, but conditions make it very tough to copy some stations most evenings we're on. We have had check ins all across the eastern half of the country, from Maine (N1HYF) to Kansas (AA0IQ), and from Wisconsin (N9JIY) to Florida (KD4OGV). Unfortunately, we do not get into the far west very well, and it would be great to have a FISTS net for you folks out west of the Mississippi. If you're into traffic handling and would like to start a western version of FSN, drop me a line

and I'll give you my ideas on starting such a net. Any-one, of course, can do so, it just takes a bit of commitment and some publicity in the Keynote. To those of you out there who do try to copy my signal through QRN and other noise, I say, thanks for trying, and keep it up. Shirley, **N1HYF**, I promise you that we will have a clean and complete contact on the net one of these nights, and I really do appreciate your efforts at checking in.

If you're worried about messing up while checking into the net, DON'T! Most of those who do QNI don't do it exactly right, but they are learning. Jack, the Horseheads traffic hound, **WB2FXK**, swears he will never QNI a section net, but he is sending messages all around the country, and doing it well too. And, Dale the Hunker (PA) hound is also coming along well. For those of you who check in and who obviously need some help, I will be sending you a card published by the ARRL which will give you a considerable amount of help in handling traffic. The card has the important QN and other Q signals on it, the format of a message, abbreviations used, and various other traffic handling aids. If you haven't received yours within the next two weeks or so, and feel you really do need it, let me know and I will either send you one or tell you where to get one (write to the ARRL, HI!).

For those of you who have wanted to check into a net, but who have been a bit nervous about the prospect, try FSN. I promise you that you will be made to feel welcome, and that you will, if you try, learn to get started in handling traffic with CW. Finally, before I give you the statistics, I'd like to thank Mike **N9JIY** and John **WB9CIS** for taking the net while I'm not there. I usually am Net Control, but once I get myself organized enough to put out a roster of Net Control Stations, both John and Mike will be taking their regular turn at Net Control, and you'll hear less of me and more of them. Both are experienced traffic people, and do a great job.

OK, here are statistics from the net for the period March 15 through June 15, 1995. To those who checked in before March 15, I apologize that your call is not listed, but as I am writing this on my internet connection at work, I do not have the information for the period prior to March 15 with me.

Stations that have checked into FSN (15 Mar - 15 June):

<b>N1ITW</b> - Floyd VT,	<b>N1HYF</b> -Shirley ME,
<b>N1KLP</b> - Steve NH;	<b>WB2EAG</b> -Mark NC,
<b>WB2FXK</b> — Jack NY,	<b>WA2OVT</b> — Bob NY;
<b>N3MEE</b> — Dale PA	<b>KM4DY</b> — Tom GA,
<b>AD4EP</b> — George VA,	<b>KI4I/m</b> — Jim MS,
<b>KN4OA</b> — Charles TN	<b>KD4OGV</b> — Chas FL;
<b>N8FU</b> — John OH,	<b>K8LQM</b> — Vince OH,
<b>N8NLE</b> — Jim OH,	<b>K8OUA</b> — Pete OH;
<b>WB9CIS</b> — John IL, <b>N9JIY</b> — Mike WI,	

**WG9K/m** — John MI,

**ND9X** — Frank IL;

**KF9OE** — Don IN,

**AA0IQ** — Claude KS.

I know I've missed some. I think **N2NNH** checked in once, but I don't have it on my list. If I've missed you please let me know in anyway possible, so that I can get my list up to date, and while you're doing that, please pardon my mistake.

Traffic count — period Mar 15 - June 15, 1995:

QNI (Check ins) — 95    QTC (Traffic) — 34    Sessions — 26

Most regular QNI — **WB2FXK** (14); **N9JIY** (9); **WB9CIS** (8); **N3MEE** and **N1KLP** (7);

**ND9X** (5).

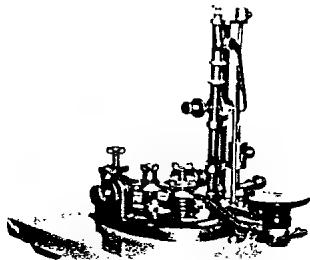
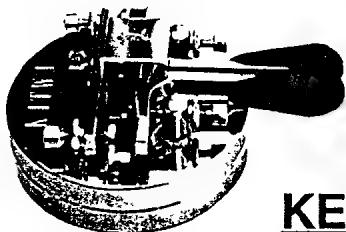
There you have it! The first ever FISTS Slow Net report. I will be trying to give you a similar report each month from now on. A hearty thank you to all of you who have given FSN a try, and an even heartier thanks to those of you who QNI regularly. If you check in I will give you a couple of free check ins before I send you a message. Eventually, though, I will ask you if you are ready for a message, and then I'll send you one. I look forward to having you on the net. If you want to get in touch with me use any of the following methods — send me a message over the NTS to Pete Kozup **K8OUA**, 5115 N. Park Ave, Warren OH 44481 (or use snail mail to the same address); send me a message over the internet to [pkozup@kentvm.kent.edu](mailto:pkozup@kentvm.kent.edu); send me a message over compuserve to 76022,2303; send me a packet message to [k8oua@kb8ast.#neoh.oh.usa.na](mailto:k8oua@kb8ast.#neoh.oh.usa.na); phone me on (216) 847-0975. Whichever way you want to contact me, I'll look forward to hearing from you. Till then, 73 es ARF, Pete **K8OUA**.

## FINAL

I guess that will have to do for June, I've got more to share with you, but want to get this to the printer so I can have it back by Friday. I'm going to be sneaky by bringing all the pages and envelopes to Field Day in hopes of getting some assistance folding and stuffing the newsletter. I mean, you gotta do SOMETHING besides sit around and drink beer and watch some other guy pound the brass! HI. So, as you are reading this, we are getting ready for Field Day. **N6MLW** is bringing out his G5RV, TenTec rig, and tuner along with a couple Coleman lanterns, Randy **KG8HB** volunteered 100 feet of new coax, I'm bringing the battery (we're going battery again this year) and my world famous Field Day chili and a screen room tent - Fred **N8ABR** is letting us use his camper again. By the way **KB8HB** is now **AA8TU**, congrats on the upgrade Randy. Brian **N8IAG** broke a rib a couple days ago while working on his car, so he won't be doing any antenna climbing this FD! But he volunteered his climbing belt to anyone who feels brave, hi! And Fred **N8ABR** is recuperating from an emergency appendectomy! Feel better guys!.....How was YOUR Field Day??

73/88 Nancy WZ8C

# K4TWJ'S NEW "KEYS II" BOOK IS NOW AVAILABLE!



## KEYS II: THE EMPORIUM

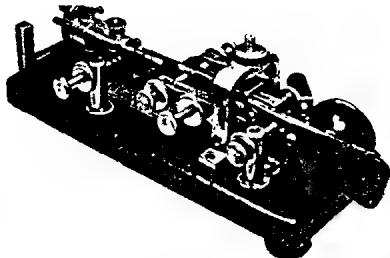
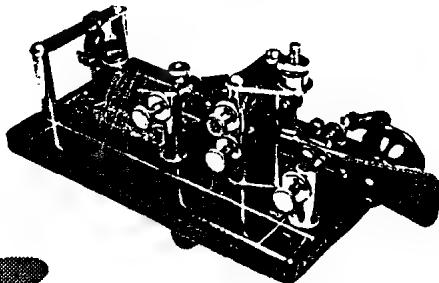
If you like CW and keys, you will love "**KEYS II: THE EMPORIUM.**" This totally new book contains a blow-out collection of photos and descriptions of keys like few have ever seen – old and brand new!

Reading "**KEYS II: THE EMPORIUM**" is like visiting a museum, private collector's exchange and new products showroom all in one. The world's most famous, exotic, rare and glamorous keys are displayed for the first time. Author K4TWJ explains each item in detail, and adds notes on dates, values, etc. as you go.

A peek preview of topics: rare Camelbacks, all Vibroplexes from 1902 to new 1995 models, QRP keys, vertical bugs, new paddles of all types! Additional items: Morse' first key, a wind-up bug, a motorized bug, a 3-lever bug, bug adapter for a hand key, cricket paddle plus more! Want a featured item? **The Emporium** probably has it or can get it for you (dreams to reality)!

View **KEYS II: THE EMPORIUM**" is self-published by Dave Ingram, K4TWJ, 4941 Scenic Drive, Birmingham, Alabama 35210, U.S.A. and available from select dealers nationwide.

And, if a club member includes their FISTS club number with their order (\$15.00 each), we will include **free shipping and handling** (book rate -- not priority).



# FISTS C.W. CLUB

## MEMBERSHIP APPLICATION FORM

Call ..... Name on air .....

Full Name and Address .....

"ZIP + 4" PSE !

The following information would help provide a synopsis of members' working conditions

Current rig(s) ..... Other interests .....

.....

.....

Antennas .....

.....

Other Affiliations (RSGB etc) .....

.....

.....

Birthdate ..... Are you visually handicapped ? .....

Please enclose annual subs \$ ..... 15<sup>00</sup> (U.S. funds)

Date ..... 19 .....

Return to:

Ms. Nancy Kott (WZ8C)

P.O. Box 47

Hadley, MI 48440-0047

USA

Signature .....

Your Sponsor ..... Paul, N6HCS #1407

Please make checks payable to FISTS C.W. CLUB

The rate for your country due to the cost of air-mail is ..... sterling. I appreciate the cost of Banker drafts etc. and it is with this in mind that WZ8C is nominated as banker for the convenience of VE, US and other members on the American continent. Your subs when due may also be paid via this source.

Fists CW Club Membership List - JUN 1995

2E0AGQ	BRIAN	0990
2E0AIR	TONY	0872
2W0ACD	PHIL	1187
3B8CF	JACKIE	0951
AA0HQ	TOM	1548
AA0IG	HERB	1297
AA0IO	CHARLES	1590
AA0IQ	CLAUDE	1211
AA0NR	RICK	1704
AA1HJ	DAVE	1569
AA1HO	ART	1283
AA1HV	ZOEL	1291
AA1JA	YUZURU	1543
AA1KF	JOE	1734
AA2KS	RICHARD	1440
AA2LK	BRIAN	1042
AA3AV	GENE	1220
AA3CH	RUSS	1280
AA3DU	MIKE	1400
AA3EQ	LEN	1043
AA3JY	STEPHEN	1545
AA3JV	CRAIG	1573
AA5PN	STAN	1459
AA6WC	JOE	1532
AA7JM	VAREL	1044
AA8FQ	FRED	1495
AA8HV	JOE	1016
AA8MI	GENE	0914
AA8NQ	KEN	0927
AA9DK	GREGORY	1578
AB4MT	JON	1597
AB5TY	MACALEE	1563
AB6UN	WAYNE	1723
AB6YP	VERN	1731
AC4FN	DAVE	1021
AC4VL	GREG	1029
AC4WH	BILL	1729
AC4WI	LOUIS	1595
AC4ZH	DUANE	1709
AC6IA	GREG	1568
AC8W	STAN	1454
AD4KX	HARRY	1559
AD4PT	DON	1514
AD4VL	JIM	1541
AD5SB	BOB	1539
AH8C	JOHN	1259
DF3GX	KLAUS	0600
DF4EO	DIDI	0737
DF8OF	SIGI	0949
DH2UAI	ROLAND	1341
DJ2VT	GEORGE	1605
DK7QB	BERT	0362
DL0SGS	SCHOOL STN	0956
DL1DRA	ACI	1077

G0FGW	RON	0433
G0FIP	ELLA	0215
G0FOD	NEV	0308
G0FPS	RAY	0004
G0FPV	IAN	0946
G0FRL	BOB	0390
G0FUS	PAUL	0110
G0FVS	JIM	0628
G0FWC	DERRICK	1355
G0GFG	MARK	0113
G0GGE	PETER	0700
G0GGU	STEVE	0491
G0GJB	JOHN	0239
G0GKE	LES	0197
G0GKH	DAVE	0034
G0GOD	JOHN	1604
G0GPM	JOHN	0412
G0GSQ	GEO	0266
G0GSW	VICTOR	0042
G0GTN	JOHN	0638
G0GVC	PETER	1096
G0GWD	ALAN	0817
G0GYY	PETER	1601
G0GZK	LAURIE	0554
G0HAU	TED	0277
G0HDE	CHAS	0845
G0HDI	BRIAN	0620
G0HFI	GORDON	0609
G0HGA	ANGIE	0841
G0HGG	GORDON	0930
G0HHL	PHIL	0429
G0HIN	TOM	0069
G0HIS	DAVE	1071
G0HJX	PETER	0819
G0HLG	GORDON	0488
G0HRL	GERALD	0975
G0HTX	TONY	0139
G0HYT	PATRICK	0220
G0IAL	ROD	0348
G0IFM	COLIN	0728
G0IFT	PETER	1194
G0IFX	BRIAN	0471
G0IGP	TONY	0129
G0IJE	DON	0509
G0ILN	RICHARD	0398
G0IMF	ALF	0427
G0IOP	GRAHAM	0231
G0IOV	GORDON	1147
G0IQL	AUDREY	0510
G0ISC	RENIE	0610
G0ITS	ROY	0498
G0IYC	DENIS	0501
G0IYG	JIM	0839
G0IZU	MIKE	0809

G01ZN	DEREK	1302
G01JBP	ROBIN	0205
G01JBO	SIMON	0204
G01JFD	GRAHAM	0477
G01JIT	DICK	1136
G01JQJ	WAYNE	0851
G01JLQ	CHAS	0622
G01JNR	SHANE	1396
G01JON	JOHN	0774
G01JRN	ART	0295
G01JRT	TOM	0745
G01JWB	BILL	0385
G01JXS	CLARRY	0586
G01JZU	ROSS	0679
G01KCA	JOHN	0200
G01KCJ	ALAN	0602
G01KHI	BILL	0706
G01KHY	JOHN	0487
G01KLS	RON	1336
G01KMU	JOAN	0786
G01KNJ	BOB	0463
G01KPB	TONY	0512
G01KRT	ERIC	0133
G01KYC	ALAN	0513
G01KYO	JOHN	0707
G01KZA	ERNIE	0738
G01LHZ	JIM	1155
G01JU	GEORGE	0816
G01JB	PAUL	0493
G01LOE	STUART	0625
G01PF	RICHARD	0950
G01QX	TREVOR	0425
G01RE	LARRY	0750
G01SLSH	ALAN	0508
G01SY	JOHN	0196
G01ULLY	GRAHAM	1360
G01WLA	CHRIS	0537
G01WLI	FRANK	08901
G01WYY	JOHN	0696
G01ZAZA	DES	0833
G01ZL	DAVID	0587
G01ZMAP	BOB	0935
G01ZMCV	SANDRA	0555
G01ZMEG	MEGAN	0518
G01ZMGD	DENNIS	0630
G01ZMHE	BRUCE	1677
G01ZMVJ	ALBERT	1357
G01ZMKJ	KEN	1390
G01ZMLA	ERNIE	0606
G01ZMOU	DICK	0668
G01ZMRH	RON	1327
G01ZMRM	ERIC	0586
G01ZMTJ	JOHN	0873
G01ZMVG	HERBERT	0760

GØMMWU	BRIAN	07031
GØMMYZ	MARIAN	06353
GØNDT	PAUL	06553
GØNÆB	JOHN	0755
GØNKO	KEN	0862
GØNNJ	SID	1386
GØNNO	JOHN	0478
GØNOB	LIONEL	0785
GØNSU	GEORGE	1606
GØNUP	KEVIN	0796
GØNVØ	PENNY	0704
GØNVY	PETER	1316
GØNYX	PAUL	0799
GØNZY	STEVE	0982
GØNZL	JOHN	0773
GØOBU	KEITH	1615
GØOKZ	JOHN	0780
GØONS	JIM	0741
GØOOD	TIM	1350
GØOPG	CHRIS	0937
GØORD	ERIC	0963
GØORS	CHARLES	0852
GØOSR	OLIVER	1178
GØOU1	BILL	0888
GØOVZ	SHAUN	1368
GØOWS	JIM	0822
GØPDM	MIKE	1343
GØPEH	TONY	1657
GØPOJ	JUDY	0883
GØPPI	DEREK	1639
GØPQU	CYRIL	1676
GØPRD	PETE	1179
GØPTB	BRIAN	1072
GØPWZ	PETER	0876
GØRXI	PHIL	0979
GØRCE	ROTHA	1054
GØREA	CHRIS	0895
GØREB	CHRIS	1164
GØRGØ	MALCOLM	1134
GØRGV	RICHARD	0981
GØRJ	BRIAN	1193
GØRKT	DAVID	1066
GØRLW	ALAN	0902
GØROT	MIKE	1056
GØRSN	RICHARD	0869
GØRSU	GEOFF	1150
GØRVO	DAVID	1102
GØRWQ	NIGEL	1619
GØSBH	TED	1655
GØSDA	COLIN	1172
GØSEF	DAVE	1129
GØSFV	DAVE	1161
GØSJC	CLIFF	1391
GØSJU	SAM	1185

## Fists CW Club Membership List - JUN 1995

GØSKR	JOHN	1125	G1AWJ	JOHN	1195	G3RJV	GEORGE	0428	G4UVV	PETER	0891
GØSNE	ANNE	1123	G1CUV	JOHN	1664	G3SJF	JOHN	0391	G4IVJ	BILL	0807
GØSQF	JOE	1384	G1PPK	JOE	1375	G3TFK	LES	1641	G4IXL	BILL	0807
GØSSG	REG	1169	G2AKK	BILL	0002	G3ITH	TEX	0995	G4JHZ	BOB	0402
GØSTR	BILL		G2DZF	JIM	0422	G3TUX	CHRIS	1307	G4JIZ	LES	0907
GØSWT	LEN	1609	G2FFD	DAN	1149	G3TVI	ROD	0747	G4JMI	JESSE	0838
GØSWU	PETE	1642	G2HKU	TED	0841	G3VD	BERNARD	1617	G4JRE	BRIAN	0292
GØSXG	KEITH	1389	G3AHS	DAWSON	0265	G3VDL	JOHN	0549	G4KEW	JOHN	1099
GØSZE	CHRISTINE	1301	G3AVL	BOB	0931	G3VNG	DAVE	1097	G4KJU	BOB	0381
GØTAW	IAN	1300	G3BRR	JIM	1063	G3VQO	LES	0874	G4KLF	TONY	0660
GØTBB	BOB	1135	G3BSK	MAX	1666	G3VUN	GLORIA	1620	G4KXG	KEN	0079
GØTBD	TERRY	1163	G3BYX	DES	0581	G3WGL	NOLLY	1633	G4LGA	DON	0598
GØTCF	PETER	1340	G3CSC	SAM	0339	G3WII	FRED	0559	G4LWJ	GEOFF	0275
GØTEB	CHRIS	1675	G3DAC	ALAN	0024	G3WWI	BILL	0413	G4LIU	COLIN	0938
GØTEQ	SYD	1186	G3DOT	JOHN	0718	G3WP	JACK	0310	G4LKT	PETER	0598
GØTFV	TERY	1177	G3DOV	DEREK	0175	G3WWS	MIKE	0604	G4LSI	JOHN	0153
GØTGF	JIM	1621	G3DUH	CURLY	1156	G3WWT	JOHN	1114	G4MLW	IAN	0156
GØTGU	BILL	1329	G3ECS	KEN	1335	G3XMM	TOM	1395	G4MSR	JEFF	0642
GØTHA	PETE	1174	G3FPY	ERIC	1331	G3YLL	RON	0282	G4MZS	TOM	1652
GØTHV	JOHN	1374	G3FTU	ROY	0502	G3YLT	TOM	0489	G4NIR	DOUG	0899
GØTHX	VIC	1634	G3GPZ	PETE	0613	G3YXJ	DANNY	1305	G4NXN	TERRY	1625
GØTIP	GEORGE	0940	G3GXQ	WALTER	0947	G3ZDD	DEREK	1312	G4NZU	RON	0368
GØTKT	PETER	1126	G3HBN	JIMMY	1199	G3ZJL	MIKE	0274	G4OEC	MAC	0357
GØTMZ	NORMAN	1653	G3HEL	JACK	1663	G3ZQS	GEO	0801	G4OHZ	SAM	0150
GØTNY	TONY	1669	G3HZL	DON	0410	G3ZRZ	IAN	0781	G4OJW	ALI	1121
GØTQT	JOHN	1381	G3INA	RON	0097	G4BLJ	FRASER	0244	G4OOS	JOHN	1121
GØTRO	NESS	1323	G3ING	JOHN	1674	G4BLI	ALAN	1637	G4OSB	TOM	0309
GØTUE	RAYMOND	1191	G3IRM	PETER	1092	G4BWJ	BARRIE	1378	G4OTN	COLIN	0578
GØTUJ	WALT	1139	G3IVF	SMUDGE	1614	G4CMY	TONY	1626	G4PDQ	JOHN	0455
GØTWN	DAVID	1334	G3JBA	JIM	0183	G4CPA	GEOFF	1644	G4PPG	JIM	1124
GØTZV	GORDON	1392	G3JPZ	IAN	1347	G4DAL	DAVE	0675	G4PPK	CLIVE	0455
GØTZW	JOHN	1332	G3JTO	ERIC	0766	G4DHZ	PETE	0880	G4PPV	GRAHAM	0455
GØUCK	BARRY	1344	G3JUU	DEREK	1376	G4DNB	BILL	0658	G4PQG	RALPH	0634
GØUCQ	PHIL	1319	G3JXT	TED	1603	G4DNC	GEOFF	0671	G4PSE	MIKE	0871
GØUEE	PETER	1358	G3KMG	DAVE	0124	G4DYG	PETE	1821	G4PSI	GEORGE	0837
GØUFL	ROY	1382	G3KQN	JACK	0699	G4EBK	GEORGE	0804	G4PSL	TERRY	0244
GØUFT	KEV	1650	G3KTT	ALAN	1308	G4EEM	BOB	0724	G4PTE	KEN	0134
GØUHZ	LEN	1353	G3KWO	KEN	0006	G4EIB	JIM	0372	G4RBE	JACK	0174
GØUJV	DAVE	1373	G3LPS	ERIC	1398	G4ETJ	REG	1394	G4RDM	PETER	0186
GØUXX	RAY	1618	G3LRB	STEVE	1171	G4FAI	TONY	0629	G4RFS	STAN	0229
GØULB	DON	1649	G3LRP	PETER	1672	G4FJC	RICHARD	0888	G4RHP	LEN	1362
GØUJM	JOHN	1678	G3LUZ	FRED	0444	G4FMH	BILL	0996	G4RQA	TOM	0036
GØUJM	NORMAN	1369	G3LYU	DERRICK	1608	G4GBG	PALU	0637	G4RSK	GORDON	0030
GØUPS	PAUL	1651	G3MAM	DAVID	0497	G4GBX	WANDA	0514	G4RWP	ED	0286
GØUUF	ROGER	1643	G3MCK	GERALD	0230	G4GFQ	RON	0894	G4S00	HAROLD	0229
GØUQF	GRANT	1383	G3MLD	KEN	1091	G4GJY	SID	1667	G4SPK	ROBERT	0767
GØURM	PETER	1632	G3MMF	RAY	1151	G4GOL	JACK	1100	G4SSH	ROY	1623
GØUtl	ALAN	1393	G3NCL	RON	0168	G4GUA	JOHN	0467	G4TCI	DOUG	1346
GØUtr	DAVID	1629	G3NYA	DAVE	1061	G4GUW	GORDON	0857	G4TKX	ARTHUR	1668
GØUXX	PAT	1622	G3OPEN	DAVE	1303	G4GYD	MIKE	1352	G4UEW	DAVE	0584
GØUYK	JOSEPH	1324	G3PKX	DON	0257	G4HSC	HARRY	1192	G4UHM	STEVE	0304
GØUZI	PHIL	1638	G3PPD	STUART	0977	G4IAV	BOB	1140	G4UKZ	RAY	0148
GØVEB	BROOK	0952	G3RCO	CHARLES	1168	G4INM	TOM	0884	G4UJL	LES	0675
GØVJK	MIKE	1647	G3RGE	KEN	1662	G4IRM	DEREK	0123	G4USW	BILL	0405

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GI3HCP	DES	1311	GW0PRX	HAROLD	0965	K7WF	STU	1493	KC4NZB	CARL	1274
GI3HNM	CLIFF	1379	GW0PZS	TREFOR	0976	K8AN	RALPH	1484	KC4OCS	DON	1224
GI3MMF	BILL	1613	GW0SFO	KAY	1105	K8BTH	WAYNE	1465	KC4SPB	HOWARD	0913
GI3NQH	JOE	0945	GW0SGG	BILL	1602	K8KFJ	GARIE	1732	KC4UUG	DON	0910
GI3VYY	BRIAN	0980	GW0SXE	JOHN	1161	K8LEN	PATRICK	1494	KC5ASD	JOHN	1505
GI3XHL	NOEL	1354	GW0SXZ	JM	1339	K8LJG	JOHN	1460	KC5DSN	JOHN	1275
GI4BBE	REG	1188	GW0URS	FRED	1328	K8MPF	DAVE	1486	KC5DUI	BOB	1534
GI4CBG	ROY	0161	GW1VAW	BRIAN	0420	K8NA	TED	1415	KC5GXL	DAN	1572
GI4CQZ	KEN	1064	GW3JEZ	BOB	0364	K8OUA	PETE	1254	KC5HXP	RON	1562
GI4PCY	FRED	0156	GW3LHK	GWIN	1125	K9QVB	JOHN	1047	KC5JEG	ERIC	1441
GI4SRQ	GEORGE	0962	GW3PRL	MARTIN	1315	K9VKY	BRIAN	1212	KC7DQV	CHARLIE	1547
GI4XFS	LYN	0464	GW3SB	CHAS	0345	K9ZCH	LARRY	1474	KC7FI	STEVE	1530
GI6NIV	EDDIE	1612	GW3ZNN	WALLY	0964	KA0EBP	ED	1232	KC7IG	ART	1745
GM0BUH	ALEX	0076	GW4GCB	PETER	0657	KA0IOT	JIM	1241	KC9DT	HERB	1744
GM0DJ1	DANNY	0312	GW4IQA	REG	1116	KA1ZQR	RICHARD	1429	KD1QG	BRUCE	1227
GM0ERV	SHIRLEY	0107	GW4KFD	BARRIE	1616	KA1ZVX	WES	1509	KD4D	MARK	1519
GM0HLP	IAIN	0535	GW4KUS	BERT	0856	KA2GJV	BRUCE	1017	KD4DDI	PAUL	1512
GM0IGJ	JEFF	1356	GW4PQX	GEORGE	0180	KA2OYF	BARRY	1528	KD4FLO	JOHN	1506
GM0KMG	BILL	0484	GW4XQH	JOHN	0576	KA3WMJ	KEN	1524	KD4FUE	BOB	1267
GM0LIR	PIP	0942	GX0000	VARIOUS	1000	KA4IFF	ESTHER	0011	KD4ICV	DAVID	1447
GM0LOA	JOHN	0121	HA0MP	JANOS	0899	KA5TUF	BILL	1430	KD4OGV	CHARLES	1587
GM0PVX	PETER	1057	HA5BR	PISTA	1059	KA5Z	RICHARD	1702	KD4VYA	ROGER	1403
GM0SNT	ALLAN	1610	HE9VIZ	NICOLA	1659	KA8AMX	TRISH	1453	KD6CVP	ROBERT	1048
GM0VIT	BILL	1665	I2FGT	JUL	1051	KA8OQF	CHARLIE	1478	KD6GFH	JOHN	1045
GM0VYV	JON	1631	I7PXV	VIN	1342	KA9MIV	BRENT	1507	KE2NT	MIKE	1031
GM3CF5	JIM	0356	IK0NK1	LUIGI	1052	KA9RPR	PAUL	1485	KE3NV	SCOTT	1502
GM3DKW	JIM	0639	IK2ERA	ILARIO	0929	KB0LFS	ROSCOE	1555	KE4AGT	JIM	1581
GM3GG	GEORGE	1154	IK2HSW	HENRY	1388	KB0QVB	RICHARD	1584	KE4HZM	RICHARD	1554
GM3HEN	TONY	0122	IK2RMZ	MARTIN	0853	KB0ZE	AUBREY	1289	KE8M	HOWARD	1456
GM3HVT	JIM	1628	IK7JPJ	WALTER	1349	KB1AUM	SHEILA	1599	KE8UM	MURRAY	1518
GM3LGM	BILL	0564	IN3NJB	BOB	1317	KB1AXF	BILL	1522	KF2DD	BILL	1409
GM3OAV	DOUG	0562	JATUHM	MASA	0018	KB1FK	AL	0916	KF2ON	WILLIAM	1570
GM4BAE	GERRY	0683	JP1BJR	HAL	0325	KB2BOY	STAN	1598	KF2QY	CHEF	1278
GM4HYF	GEORGE	0243	K1ARO	RICHARD	1580	KB2QLK	GEORGE	1538	KF5BN	GORDON	1503
GM4OSS	STEVE	0251	K1UNQ	CARL	1218	KB5HRS	PETE	1206	KF7AY	WARREN	1475
GM4ZTO	JOHN	0695	K2SB	STEVE	1462	KB5SFS	BILL	1204	KF8RG	KEN	1556
GM7GOD	RILEY	0847	K2SWZ	BERNIE	0748	KB5WKX	ED	1499	KF8SY	ED	1720
GSW1	DAVID	1367	K2TD	TON	1463	KB7PDN	BOB	1266	KF8UE	AL	1742
GSW3	DAVID	0939	K2VWE	DAN	1726	KB7RWD	BRIAN	1575	KF8YM	GENE	1223
GU0SUP	PHIL	1635	K3SZG	ED	0922	KB7SVA	DAVE	1549	KF9OE	DON	1406
GU4WQP	DICK	1380	K4AHM	LEARD	1550	KB7UFS	GEORGE	1457	KF9RK	TONY	1424
GW0BOJ	HOWARD	0689	K4DRD	STAN	1557	KB7YWJ	JAMES	1567	KG0KR	ELIZABETH	1592
GW0DIX	RON	0740	K4KUZ	MIKE	1247	KB8KEJ	CHER	1511	KG8DA/KE	GEORGE	1473
GW0EDC	BRIAN	0151	K4OWM	SHERILL	1701	KB8NTE	BILL	1753	KG8HB	RANDY	1718
GW0GQC	BRIAN	0671	K4RDU	BOB	1264	KB8OHF	TIM	1523	KI6EL	FRED	1229
GW0HCB	PAUL	0528	K4TWJ	DAVE	1435	KB8OOM	SAM	1582	KJ6GR	BILL	1252
GW0HCN	TERRY	1058	K4TXJ	JIM	1448	KB8ROG	CHARLES	1713	KJ7HQ	ORIN	1552
GW0HYC	BEN	0485	K5FO	CHUCK	1716	KB8SBX	MIKE	1546	KJ8M	ROD	1464
GW0IRP	COLIN	0690	K5HT	GEORGE	1730	KB8TUO	JIM	1705	KK4HW	JULIUS	1426
GW0NLB	SAM	0983	K5WTA	BILL	1594	KB9GNP	PHIL	1724	KK6OQ	JOHN	1408
GW0ONU	DENNIS	0591	K5XR	RON	1253	KB9HSH	JIM	1270	KK6WD	JIM	0751
GW0PJK	CHRIS	0950	K6ZAN	RALPH	1529	KC1DI	DAVE	1210	KM4BR	RON	1593
GW0PNC	HARRY	1106	K7AU	MURRAY	1432	KC1M1	JOHN	1491	KN4GG	ALEX	1238
GW0PNI	DAVE	1053	K7CI	JOE	1738	KC4JGJ	LYNDAL	1708	KN4OA	CHARLES	1531

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N3LDK	FRED	1020	HELEN	0393	VE7AVC	VIC	1741	WA3CSF	JOE	1271
N3LKS	RALPH	1235	ED	0909	VE7BLC	BRIAN	1285	WA3IV	RICHARD	1719
N3MEE	DAKE	1425	ART	1222	VE7DWA	DAVE	1488	WA3JPJ	JOHN	1298
N3NNH	ANDY	1428	PETER	1022	VE7ERA	OLIVE	0743	WA3WSJ	ED	1715
N3PM	JOE	1268	NU7M	1722	VE9AE	DARREN	1233	WA4OSR	MITCH	1467
N4JQ	BOB	1490	DAN	1535	VK2SPS	STEVE	1399	WA5Y	RUSS	1721
N4VEF	DICK	1215	BOB	1535	VK3WQ	MARLENE	1359	WA8BJ	VINCE	0905
N4YGP	KAREN	1553	RICH	1540	VK7DQ	JERRY	0957	WA8KSS	RALPH	1417
N5WXE	TOM	1277	FRED	1293	VP2VI	BOB	1513	WA8MEM	DWAIN	1466
N5ZYR	JOHN	1433	OE3ICS	1366	VP5P	MIKE	1413	WA9S	CHARLES	1711
N6HCS	PAUL	1407	OE6WTD	1068	VP9NC	JEFF	1520	WB0JNR	ROGER	1501
N6MLW	DAVID	1263	ON1CN	0967	VY2RB	DICK	1410	WB1U	RAY	1421
N6QF	DAVE	1214	ON4ANE	0435	WB7UCE	JACK	1739	WB2EZG	VINCE	0315
N6QD	JOHN	1479	ON6RL	1363	WB7BFT	CARL	1431	WB2FXK	JACK	0918
N7CFA	ED	1402	PA0HZH	1080	WB7CZ	RUSS	0294	WB2JKJ	OP	1422
N7HSD	ART	1269	PA3AFF	0558	WB1CFZ	CHUCK	1477	WB4MAI	DOUG	1246
N7OBP	GARY	1596	PA3BHK	0445	W1QMK	RICHARD	1700	WB4VFN	RICHARD	1458
N8ABR	FRED	1470	PA3EBA	1377	W2ESX	JOHN	1565	WB4WNO	STEVE	1517
N8AYQ	JIM	1230	PA3FZE	0827	W2FB	HOWARD	1024	WB5KMX	RON	1504
N8DIX	STEVE	1710	PA3ZEM	1175	W2HPQ	MIKE	1290	WB7PEI	BOB	1733
N8FU	JOHN	0920	RB5FU	0792	WB2WOE	CHUCK	1477	WB8BHP	DAN	1276
N8IAG	BRIAN	1221	RW3AA	0824	WB2WSS	PETE	1279	WB8QZK	CRAIG	1510
N8JIM	MARGE	1231	S53EO	1098	W3HK	GEORGE	1420	WB8SLU	BILL	1248
N8KXY	MIKE	1515	SM5BDY	1673	WB8OKN	MERLE	1281	WB8ZWW	JOHN	1551
N8MHV	CONRAD	1295	SM7DRH	0973	W3XX	THE SUB	1443	WB9CIS	JOHN	0531
N8NLK	DAVE	1455	SP6JOE	0917	WB3ZF	ROY	1583	WB8OCV	DON	1508
N8OHC	BILL	1737	SP7AQR	0764	W4AET	WAYNE	1401	WE6V	JIM	0865
N8RXW	CHUCK	1434	SV2AJX	1337	WB4NJK	CHARLES	0988	WG3U	JOHN	1500
N8SBN	FRANK	1496	TF3DX	0771	WB4NZP	BILL	0911	WB1BZ	JOE	1707
N8TFR	IAN	1213	UA0AMW	1658	WB4TWB	RAY	1487	WB9S	RICK	1033
N8UJZ	MIKE	1571	UA1AAH	0917	WB5TEH	LEE	1026	WB1X	JIM	1544
N8WDH	CHARLES	1258	UA3AGW	1165	WB6CF	JIM	1414	WB3W	DOUG	1034
N8XKE	MARILYN	1427	UA3VRP	0764	WB6DDB	BILL	1525	WB1H	ARNIE	1027
N9Bwg	DON	1015	UA4AQO	1100	WB6LD	DICK	1521	WN3T	DICK	1296
N9DSP	MATT	1412	UA4NAL	1100	WB7JAT	VERN	1002	WB8MMW	SCOTT	1537
N9JIY	MIKE	1282	UA6JD	1385	WB7JAW	JEAN	0917	WB8E	IRENE	0656
N9LGP	DAVE	1050	UA6JW	1385	WB8CYG	JOE	1471	WB8U	KEN	1404
N9MCQ	MARK	1579	UB5FDM	0820	WB8IWX	DOC	0915	WP4IW	JOSE	1706
N9NTC	MIKE	1725	UB5FJA	0618	WB8LHG	RALPH	0794	WB0VN	LEE	1436
N9NNV	LEE	1728	UB5RCH	0936	WB8MVN	DAVE	0719	WB6Q	LEE	0739
N9ROR	GREG	1717	UJ4FJ	0678	WB8NOT	KEN	1476	WB9E	PHIL	1449
N9RVW	GREG	1228	VE2GOO	0864	WB8PBO	ART	0866	WB8S	LLOYD	1405
N9SW	GENE	1202	VE2OBK	1481	WB8YBS	FRED	0881	WB3L	MIKE	1256
NA8G	KEN	1225	VE3FS	1240	WB8ZNH	BILL	1023	WB4S	ED	1516
NA9A	JOE	1566	VE3GSQ	1411	WB9CC	LARRY	1744	WB2O	RICHARD	1526
NC2B	MARTY	1028	VE3OT	1452	WB9LOH	PADDY	1740	WB0W	SLET	1284
ND9X	FRANK	1012	VE3PUA	0378	WB9FF	MARK	1736	WB2Z	NANCY	0379
NF0Z	LARRY	1497	VE3SLQ	1025	WA0FGV	JIGGS	1286	WB8U	LOREN	1712
NI2WL	BRIAN	0440	VE3TJE	0849	WA1LGU	CAROL	1423	YO4NF	SIL	1330
NOCALL	JOHN	1483	VE3UOL	1542	WA2CVV	LARRY	1703	ZL2AOH	RALPH	1073
NP2DJ	DEBBIE	1489	VE3ZBB	1265	WA2FVL	JOHN	1585	WA2L	ANDY	1262
NP2GP	MAGGIE	1287	VE5RD	0907	WA2L	BOB	1005	WA2OVT	BERYL	1472
NP2GQ	GREG	1292	VE6VIA	1292						

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